

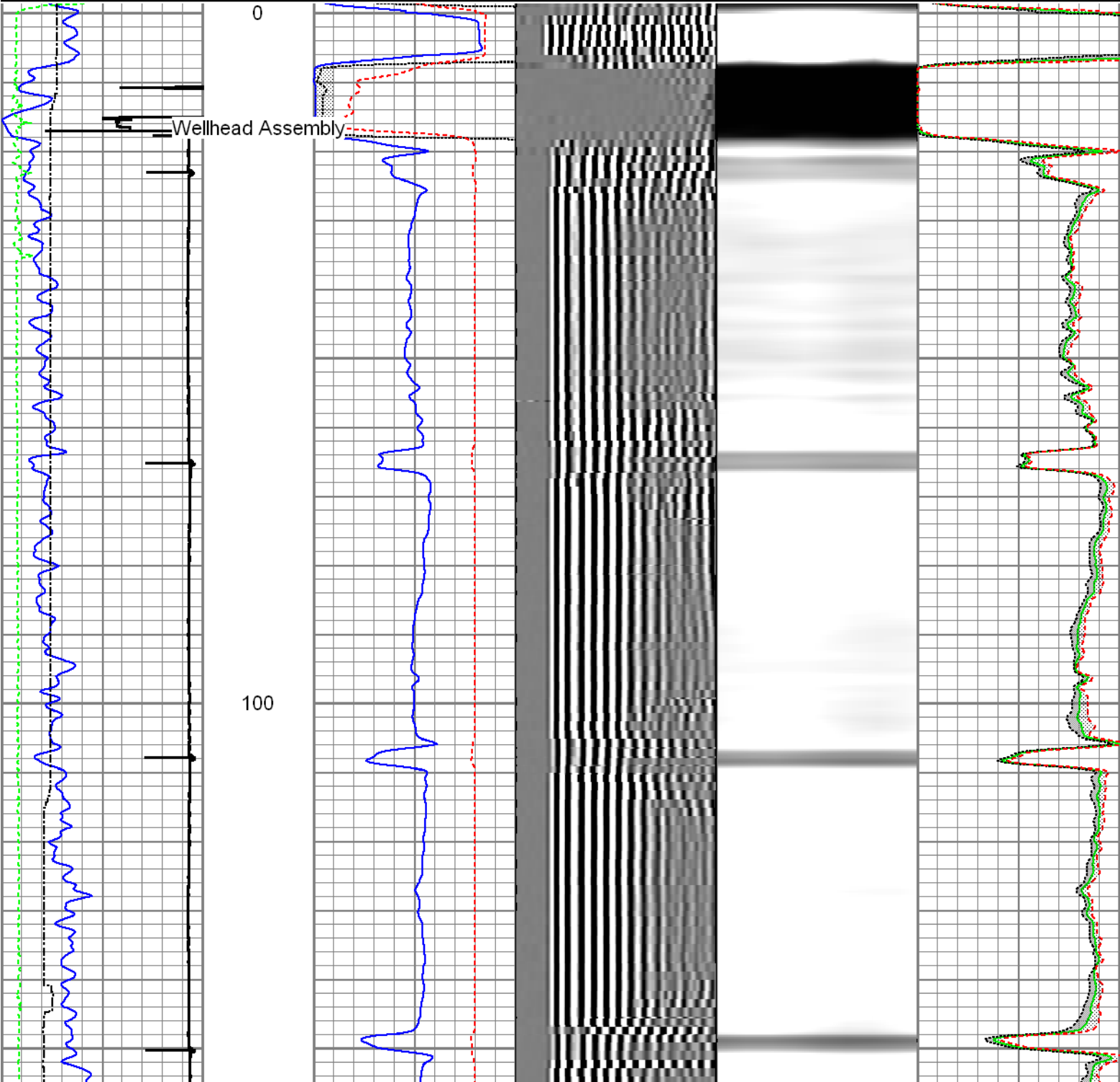


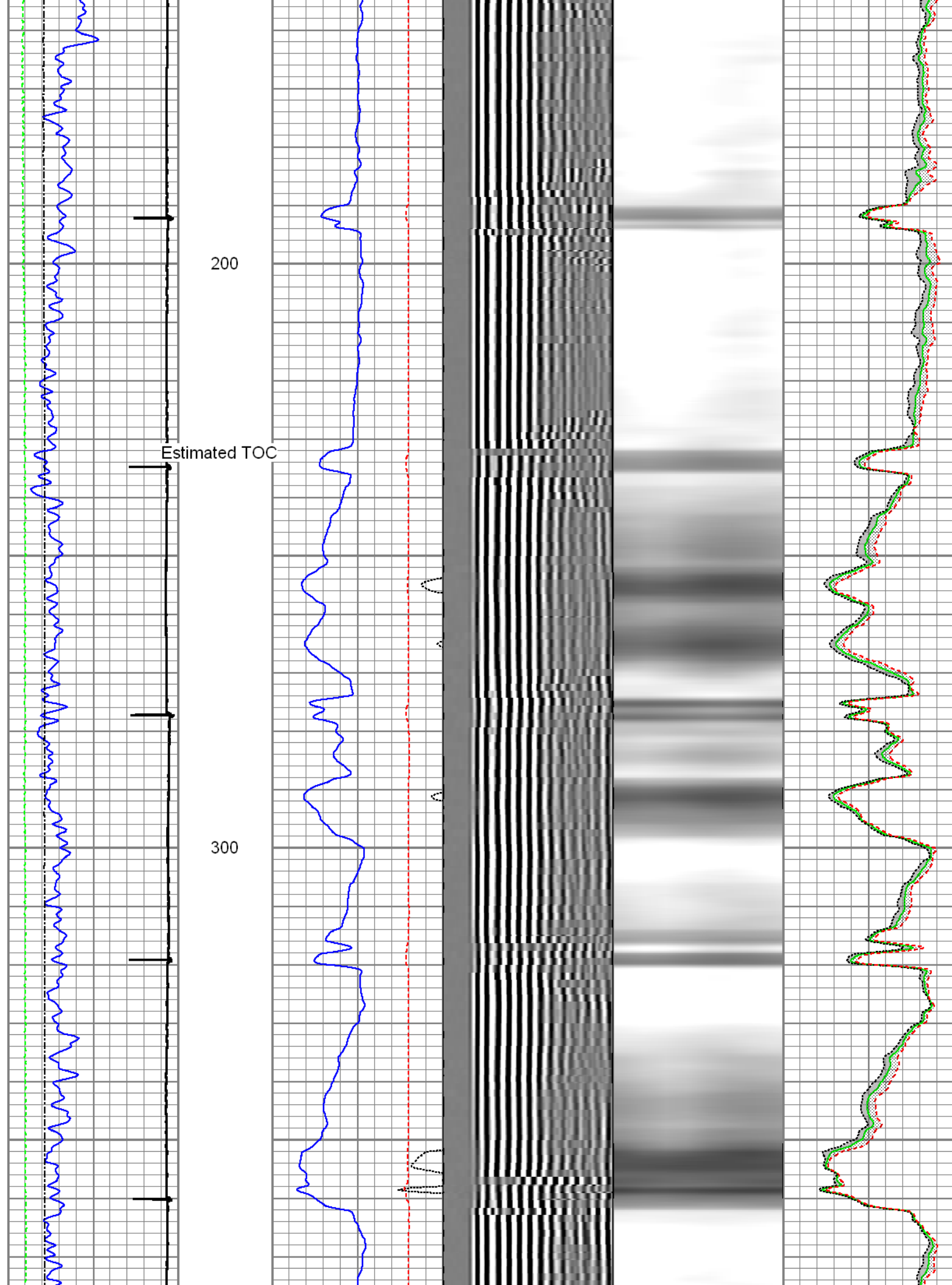
<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.
Comments
Log ran as per customer request. Gauge Ring/Junk Basket ran to 5303 FT prior to log run. Retrievable Bridge Plug set at 5226 FT prior to log run. Log ran from 5220' FT to surface. Log Ran with 2500 PSI surface induced pressure. Thank you for choosing FMC Technologies Completion Services, Inc.!!

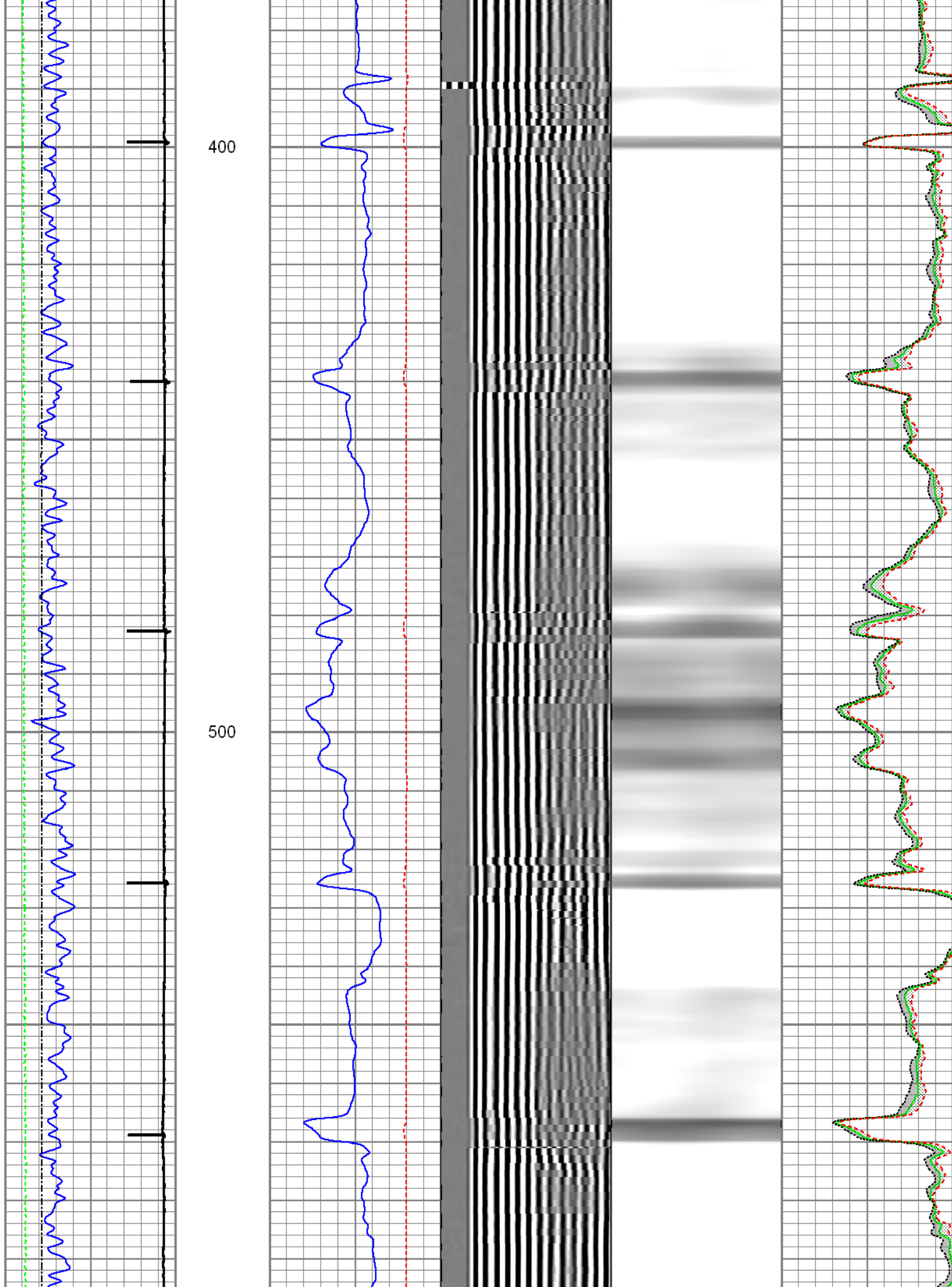


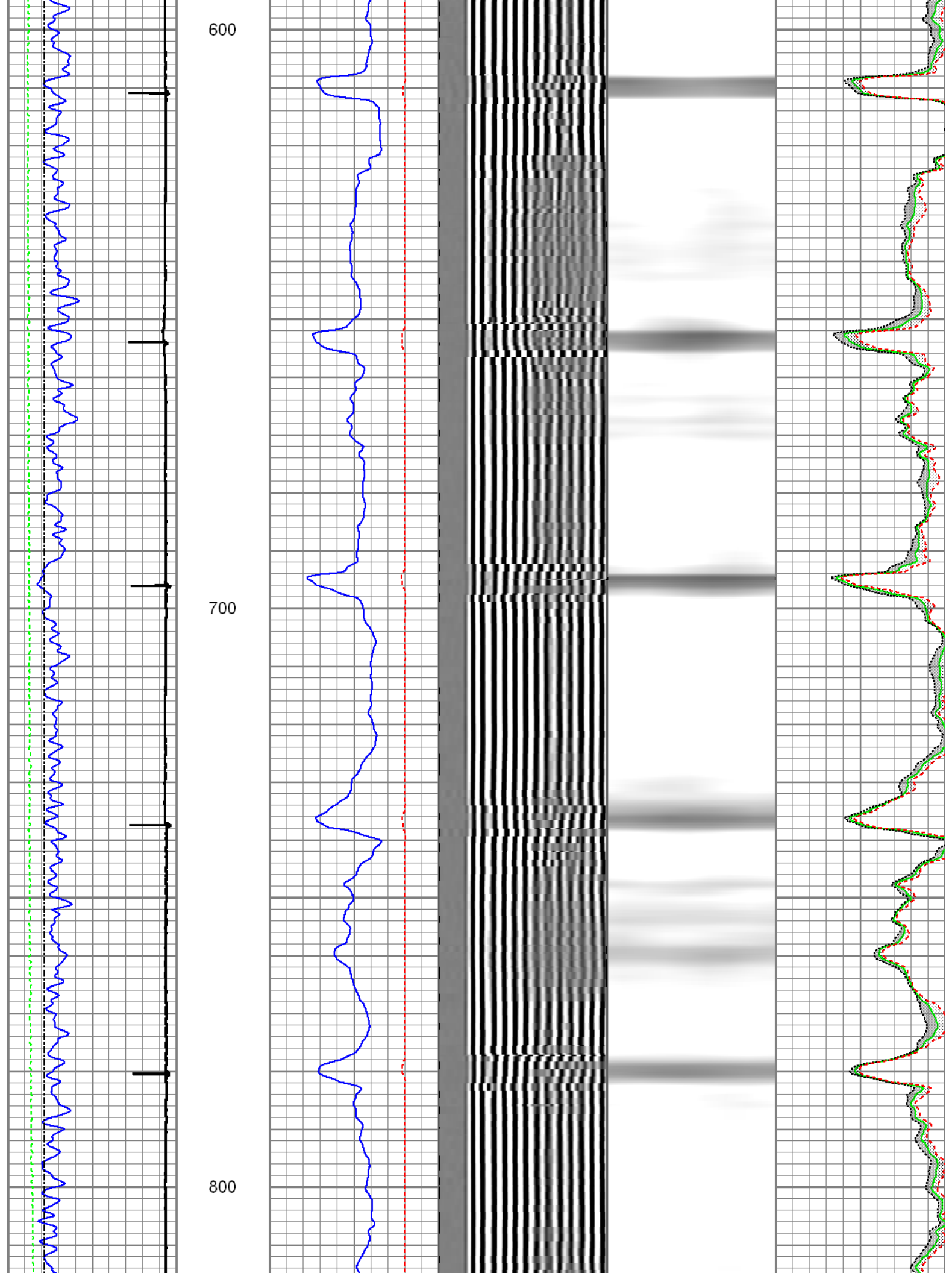
Database File: 08-06-14_whiting_razor 25b-2549_mit_rbl.db
Dataset Pathname: main
Presentation Format: rbt4_mit
Dataset Creation: Wed Aug 06 12:14:39 2014 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

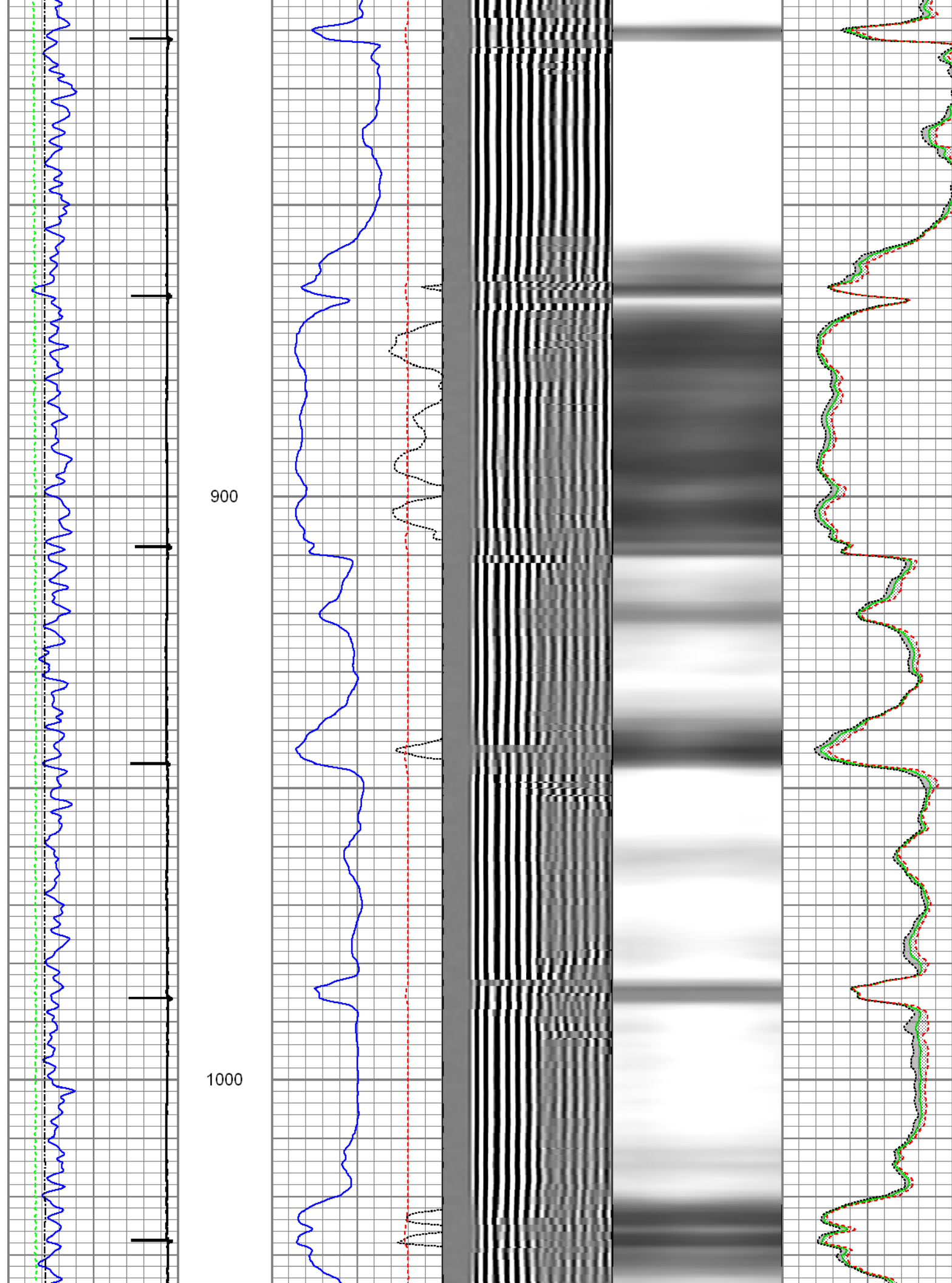
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 120	0 (mV) 100	200 1200		0 100
Casing Collar Locator	3' Amplitude x 5			Minimum Amplitude
Line Speed	0 (mV) 20			0 100
-100 (ft/min) 100	3' Travel Time			Maximum Amplitude
Line Tension	650 (usec) 150			0 100
0 (lb) 2000				

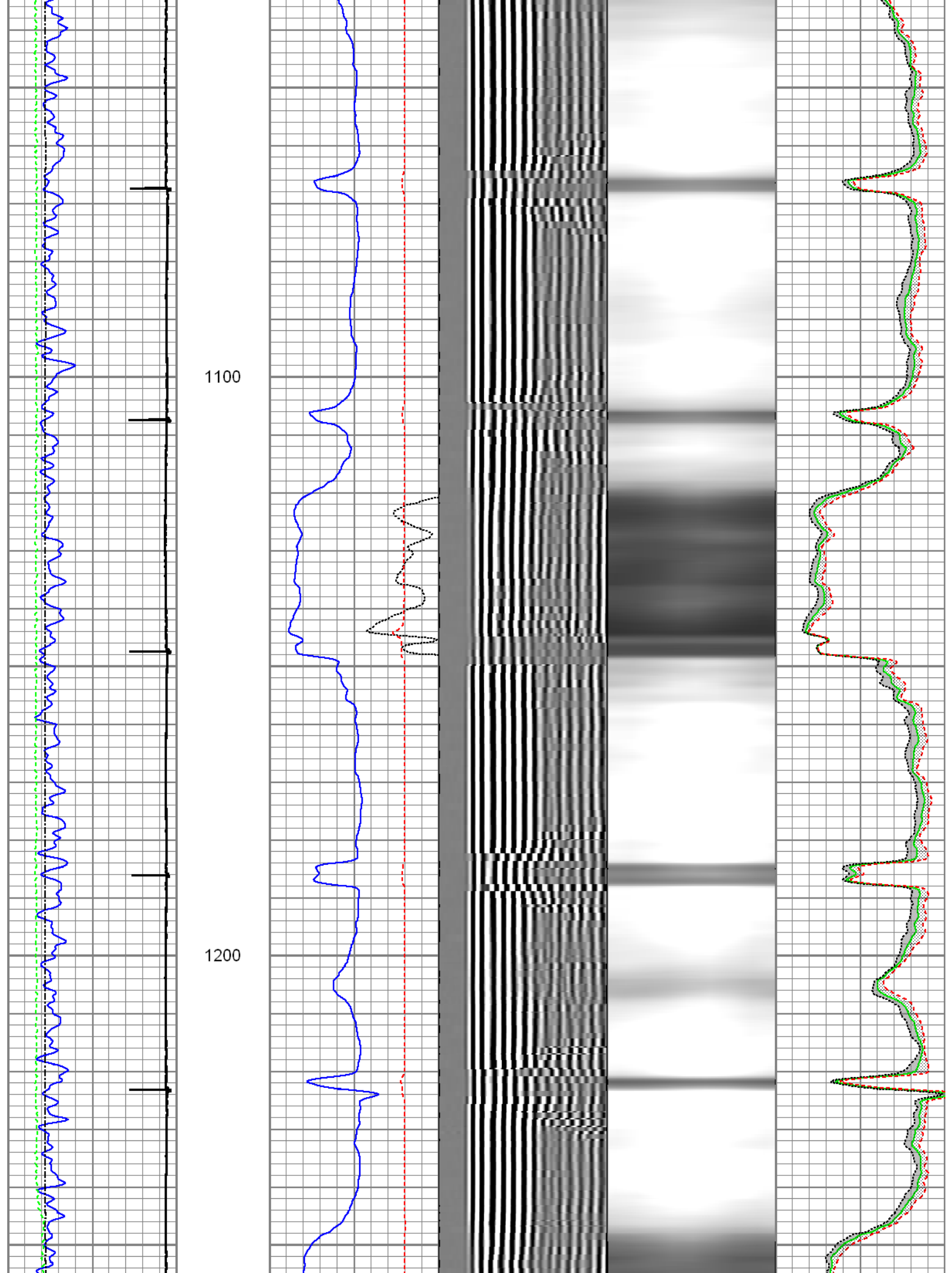


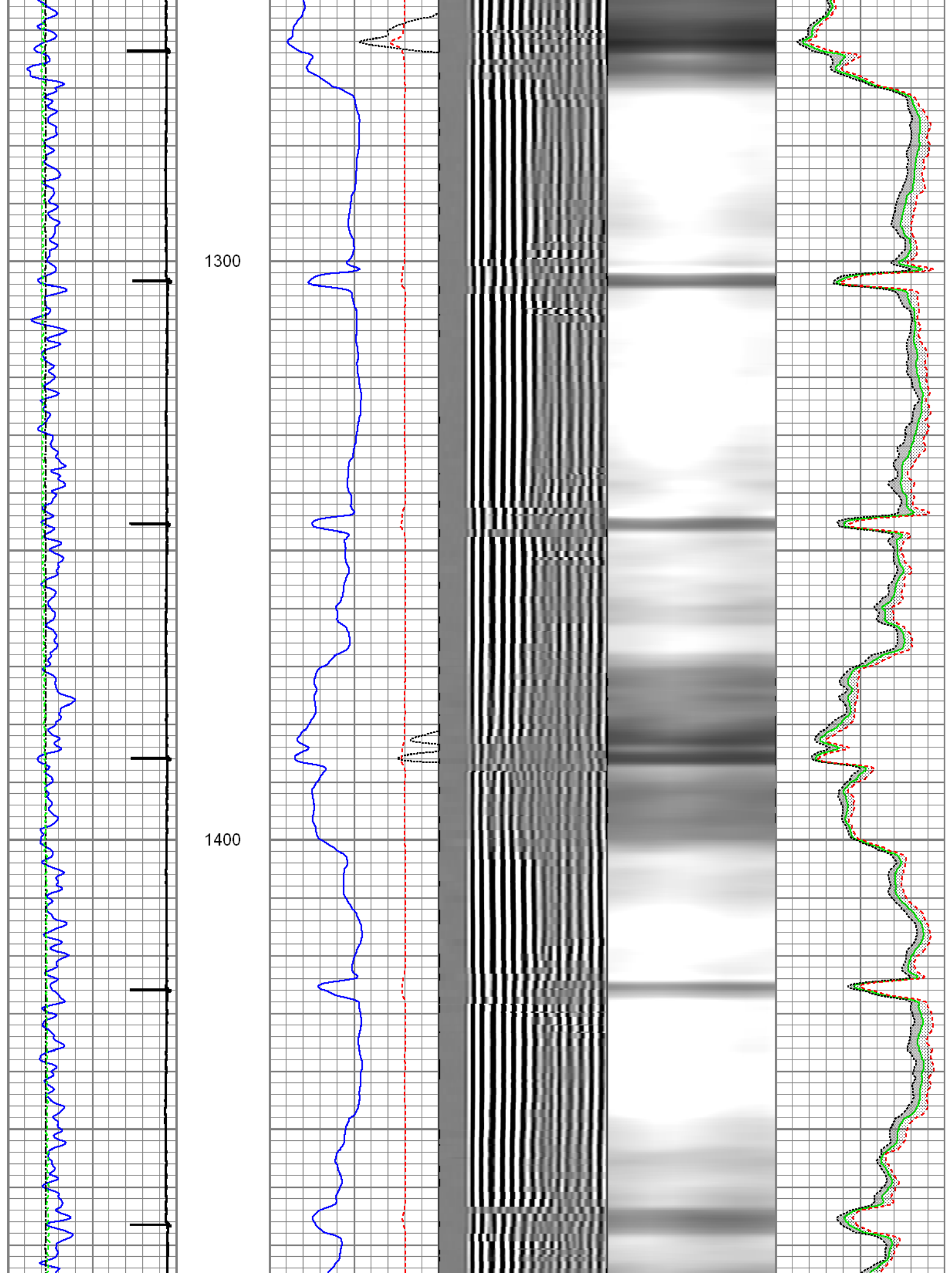


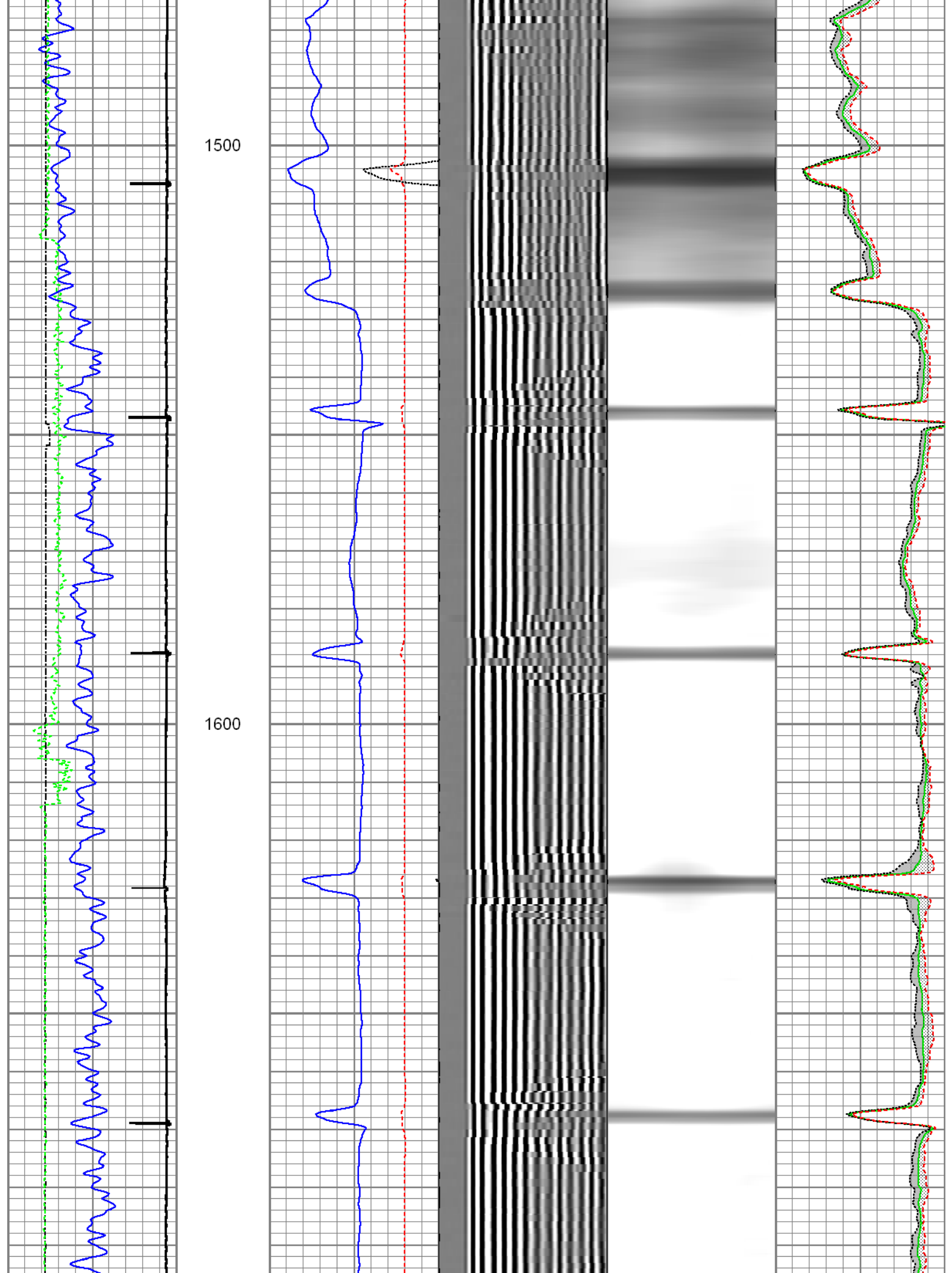


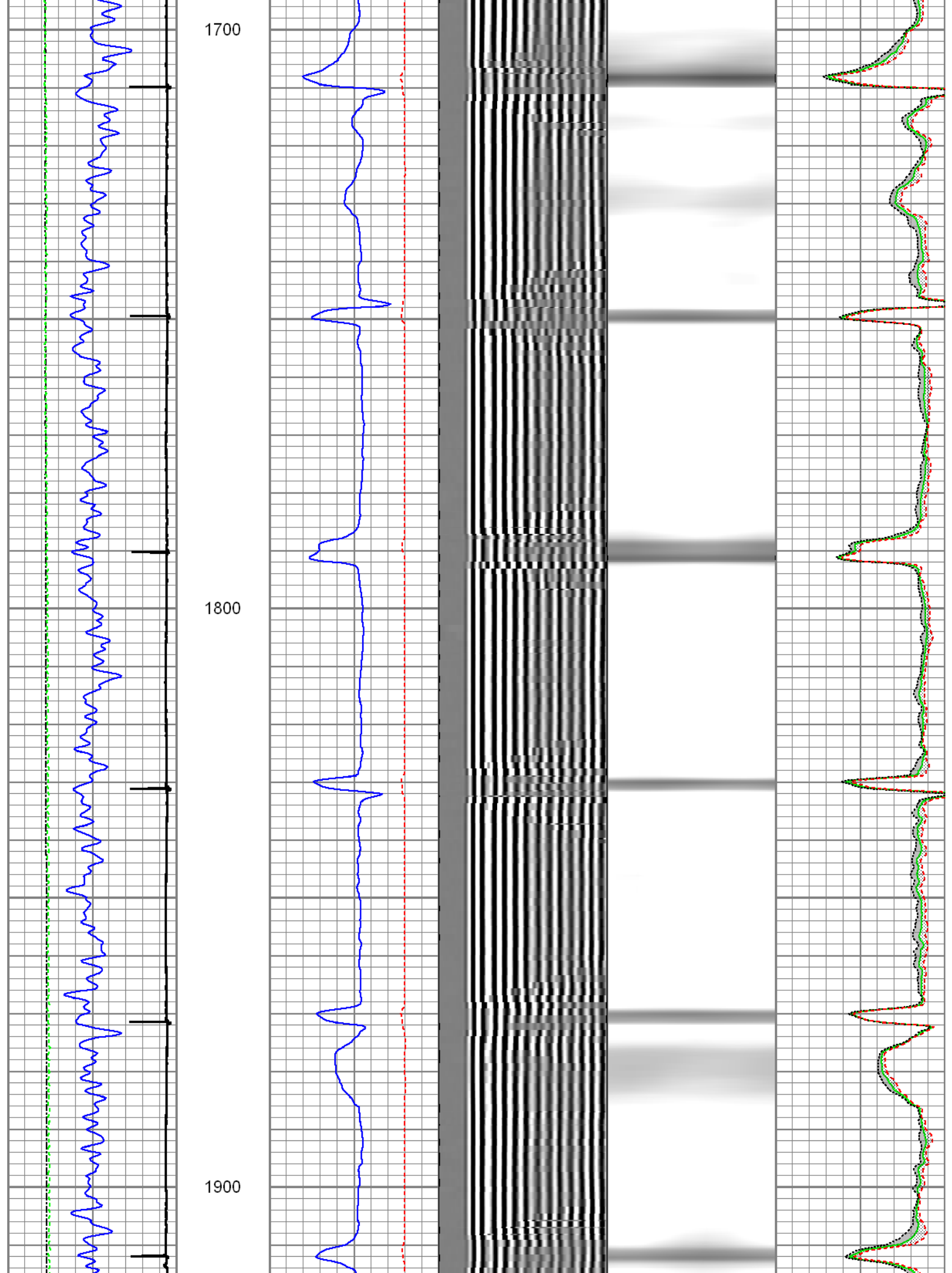


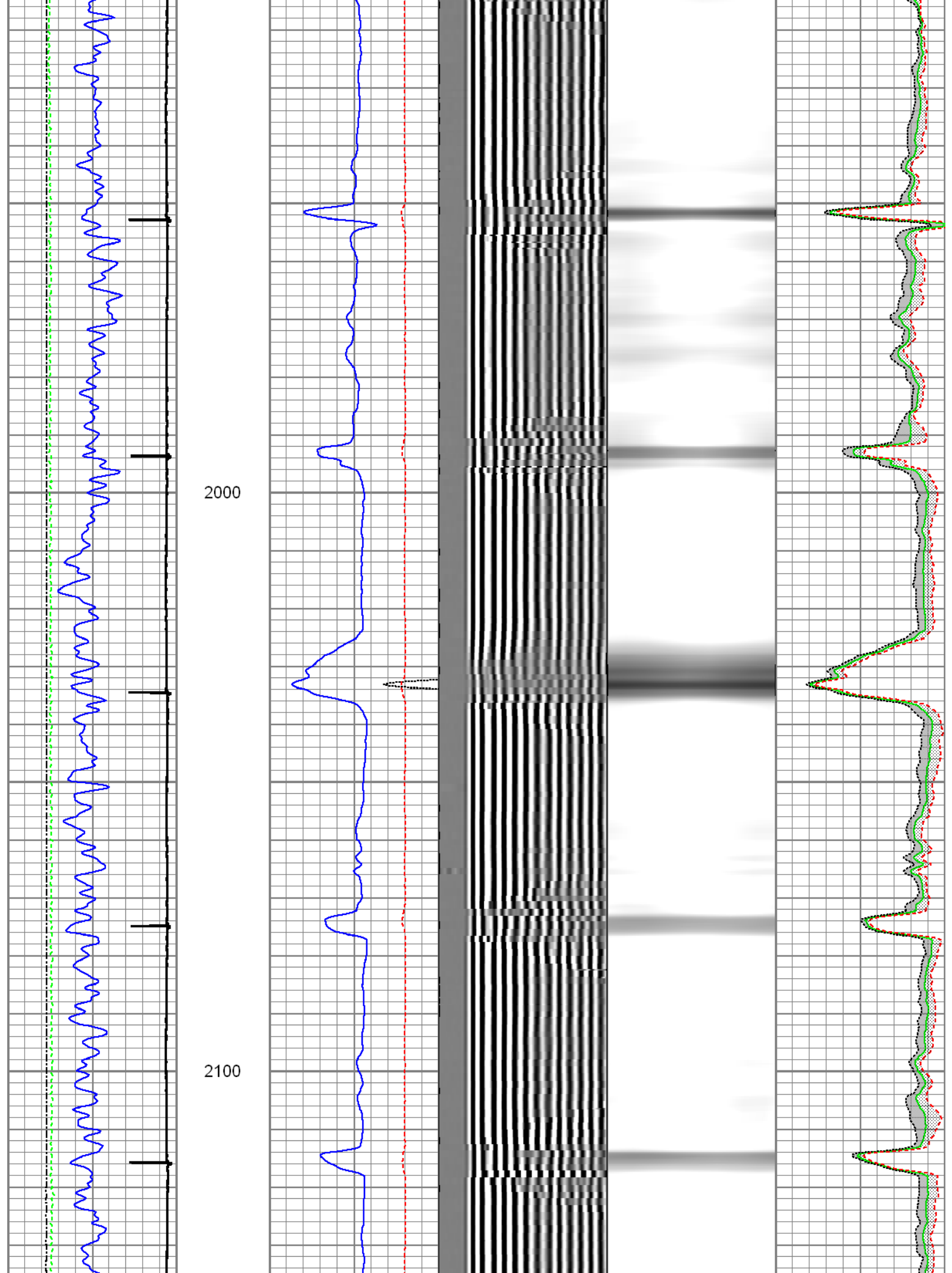


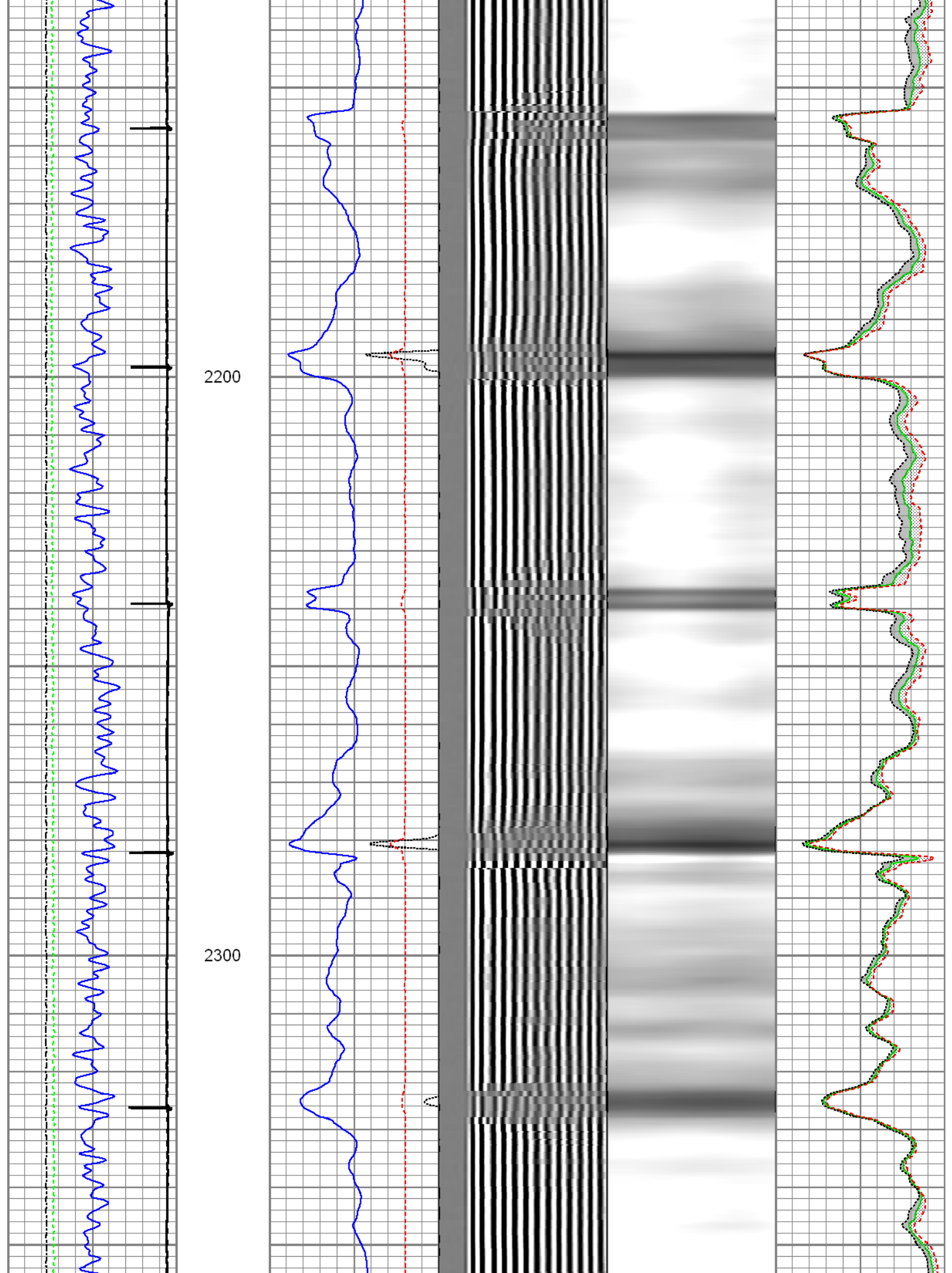


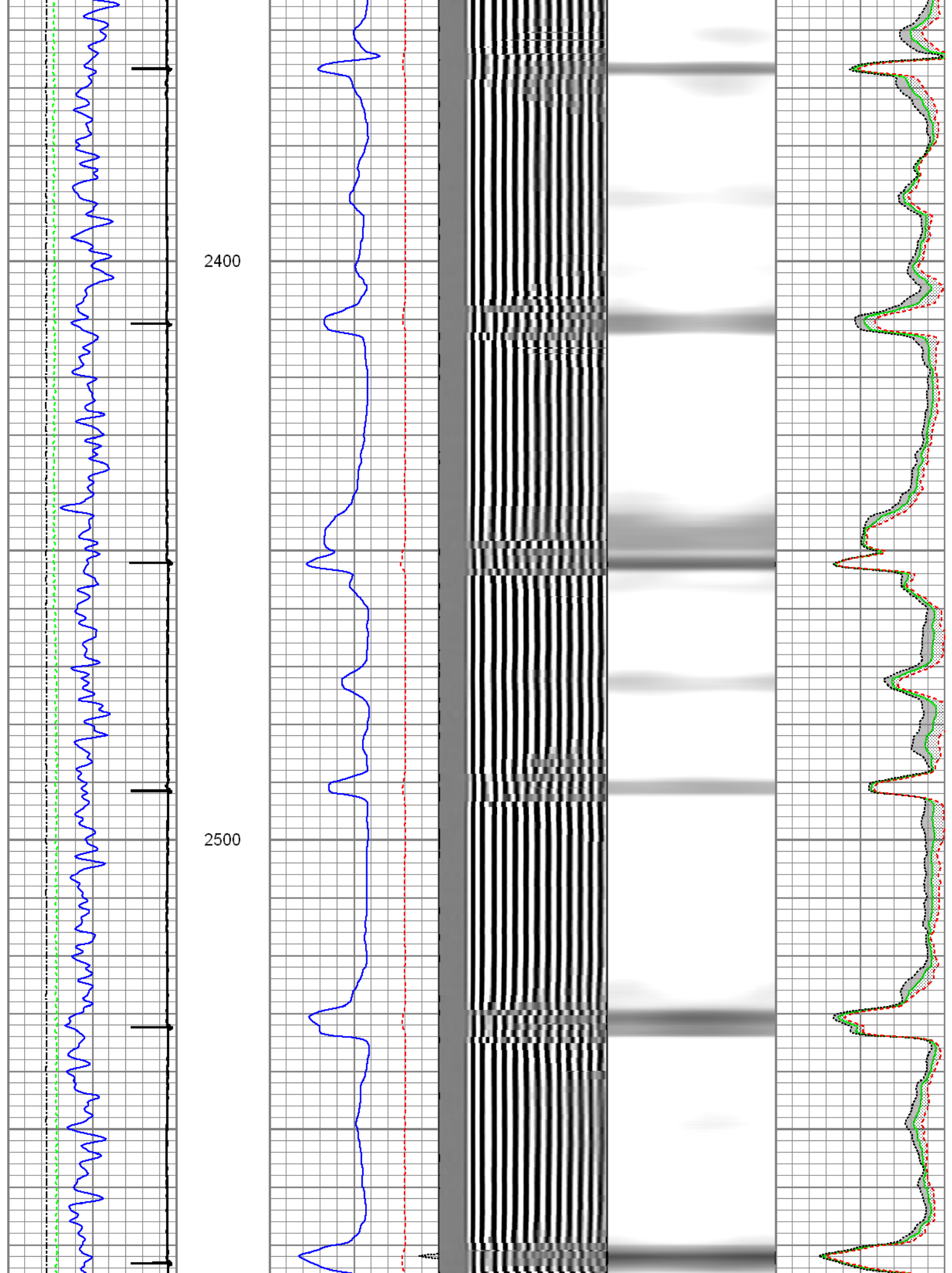


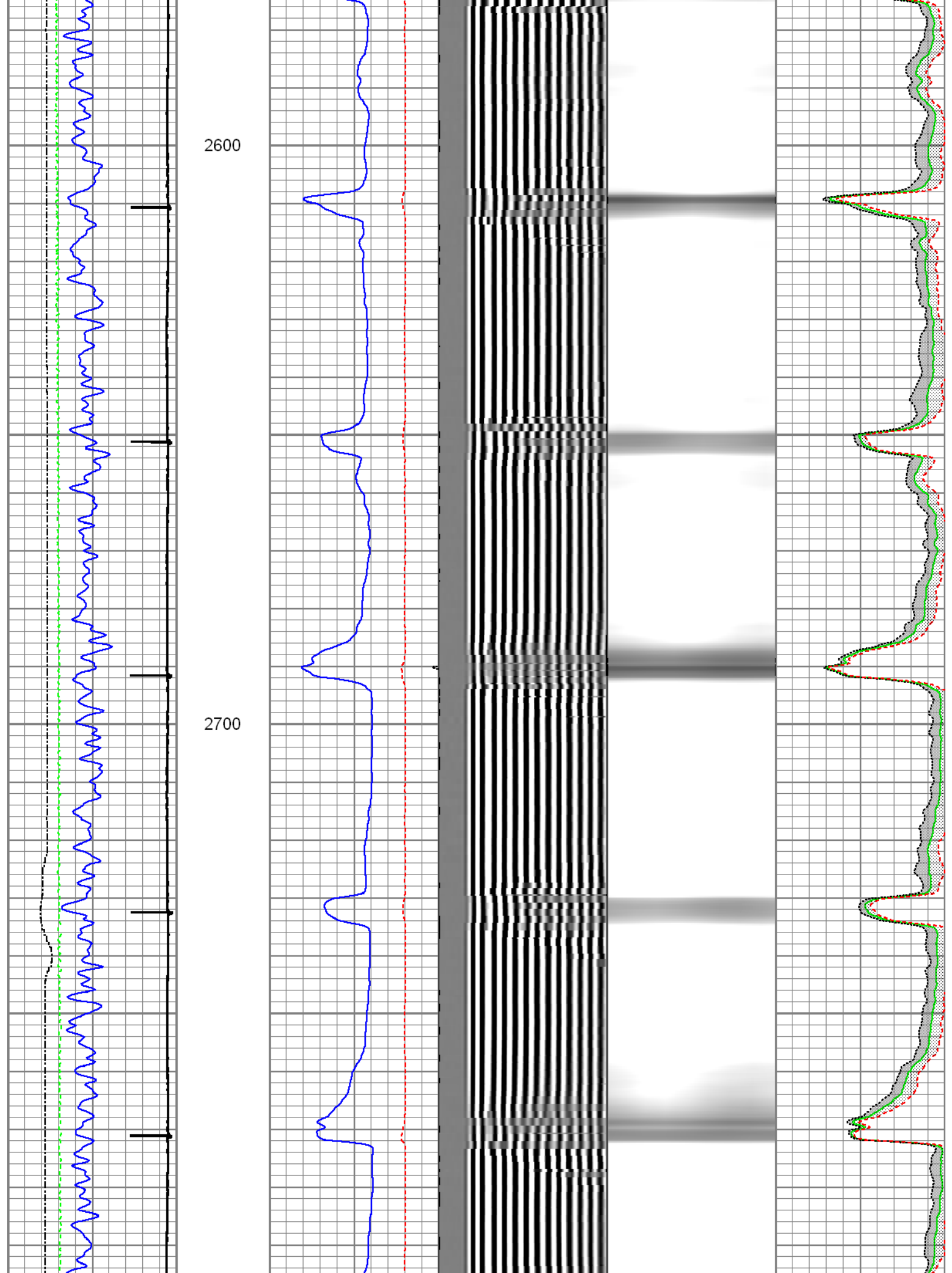








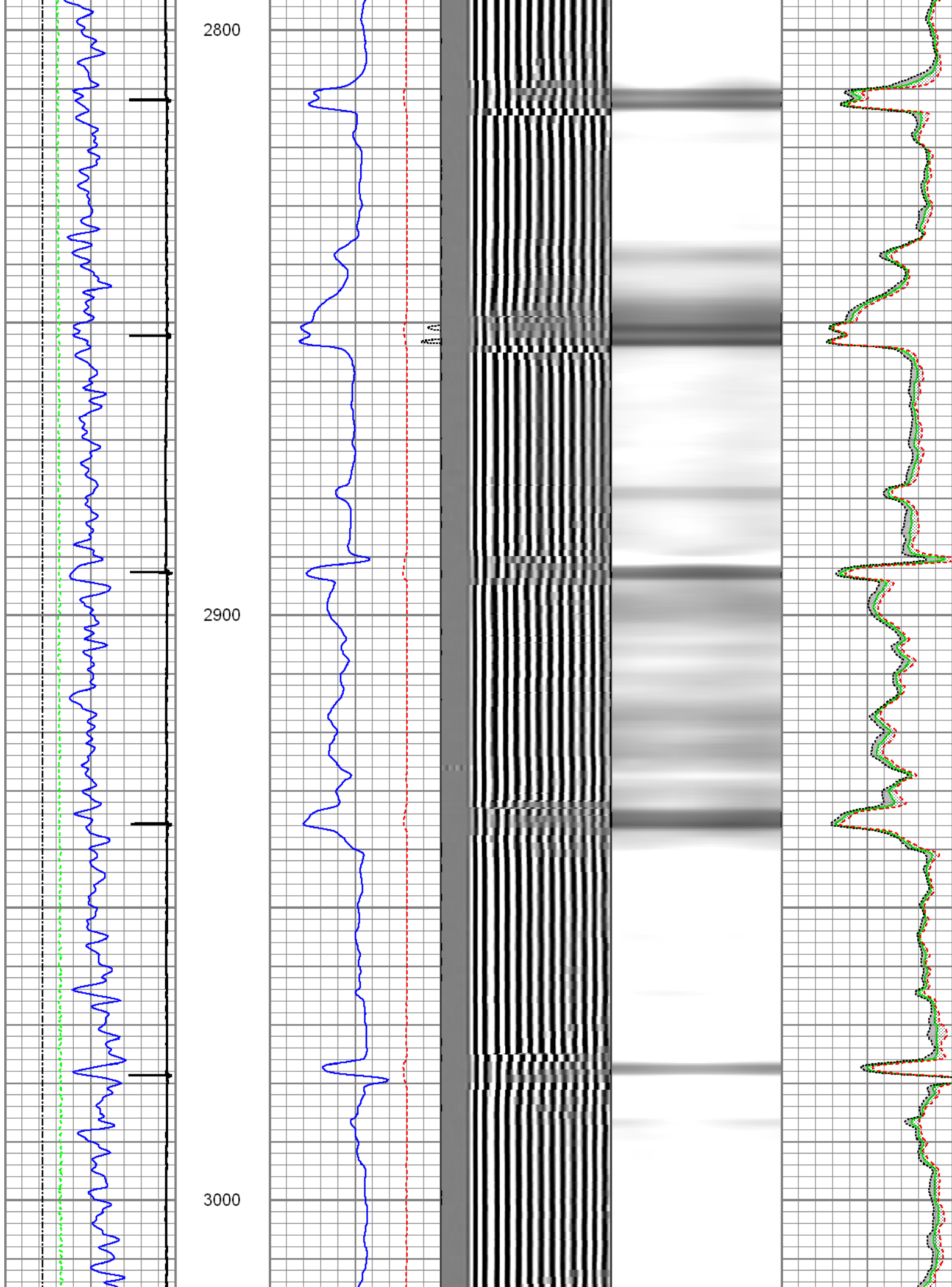


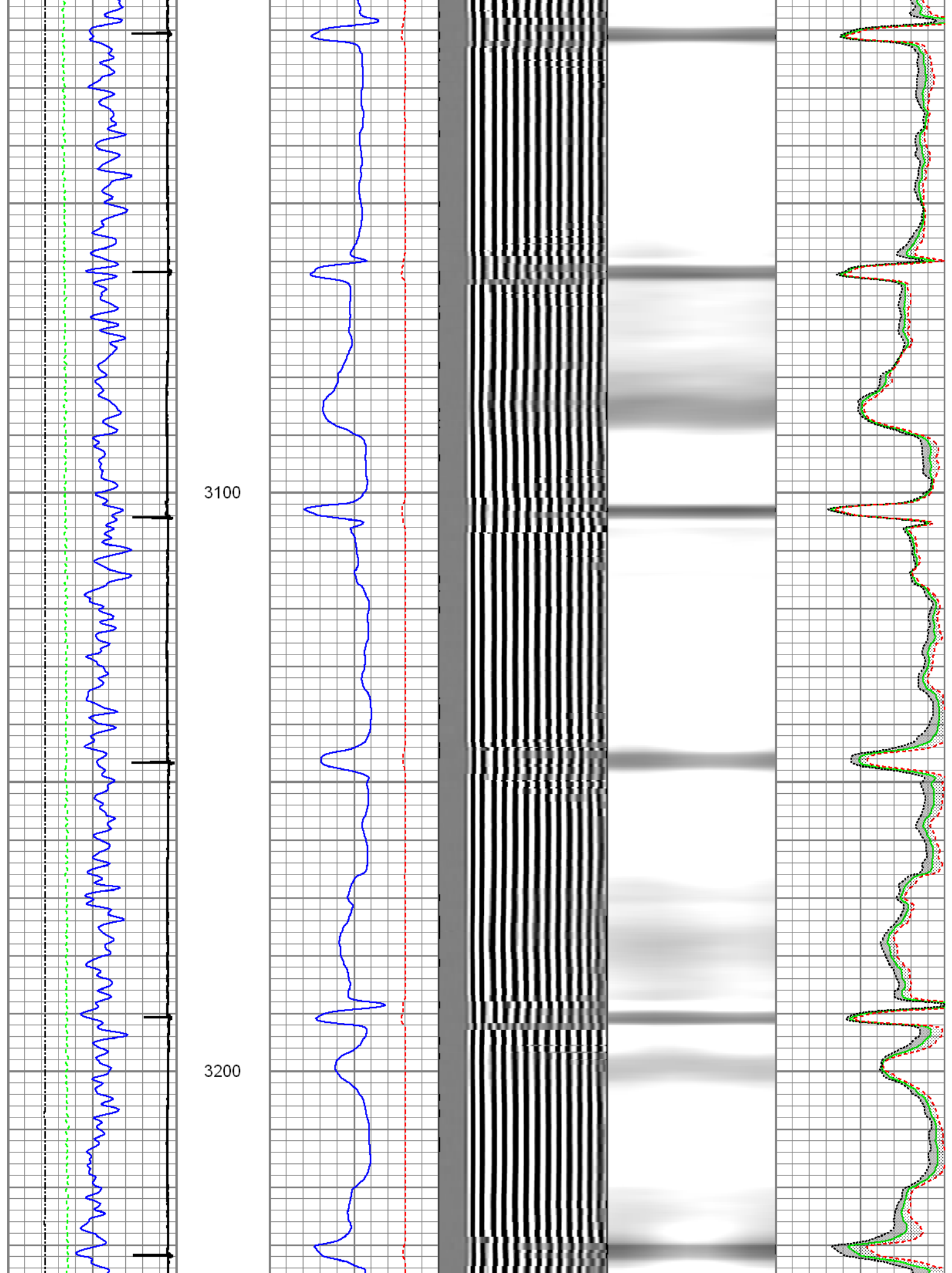


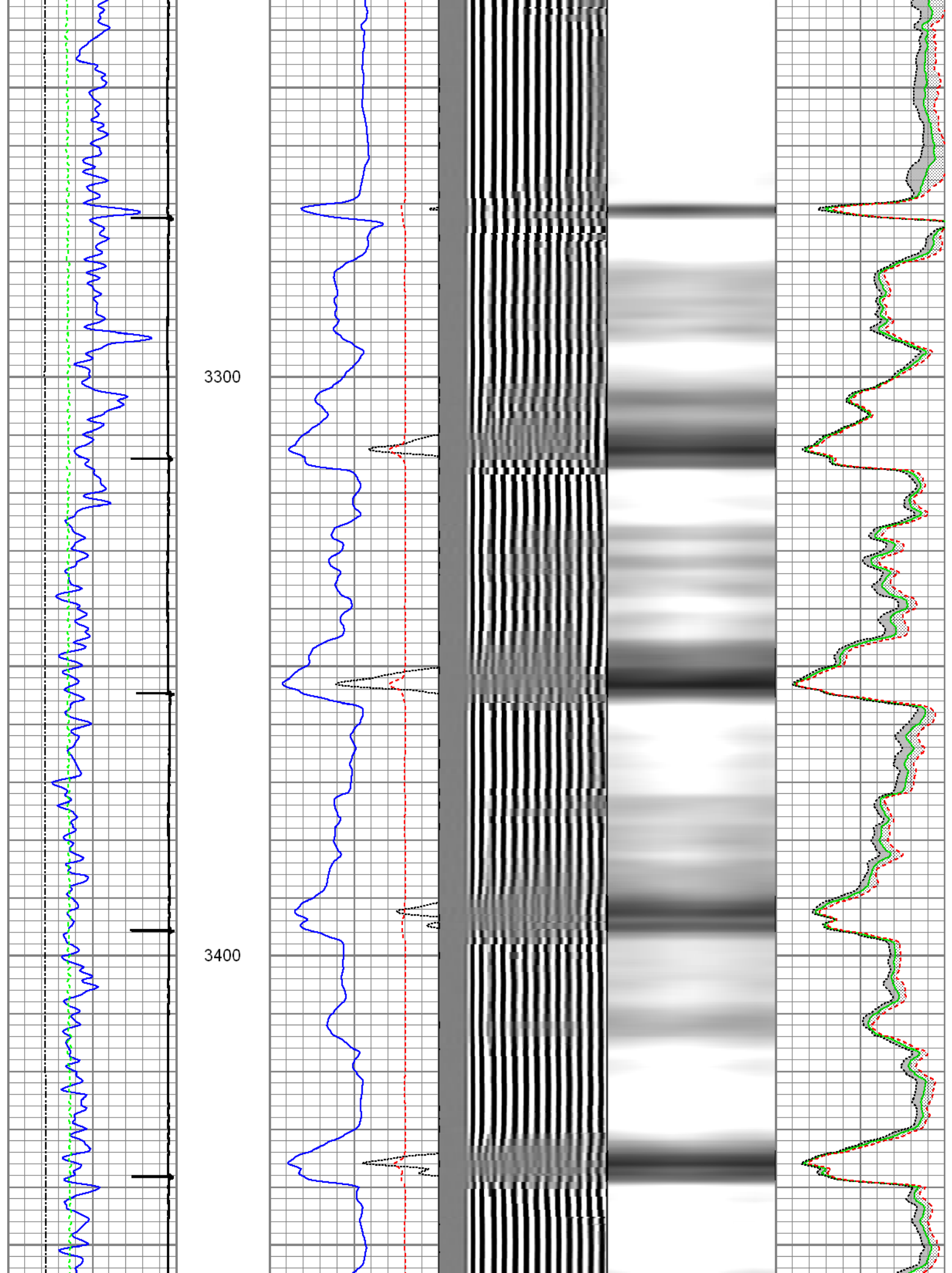
2800

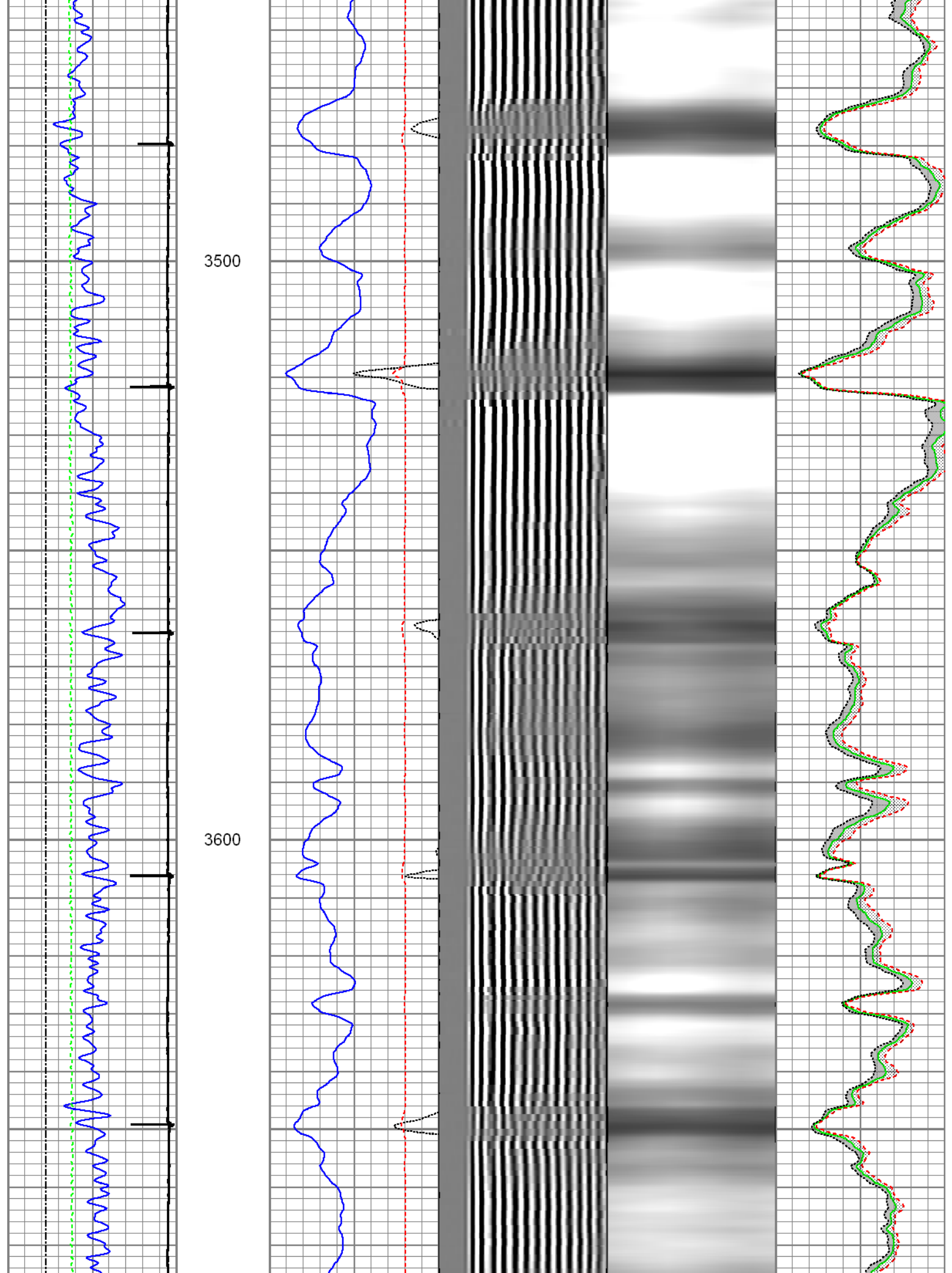
2900

3000



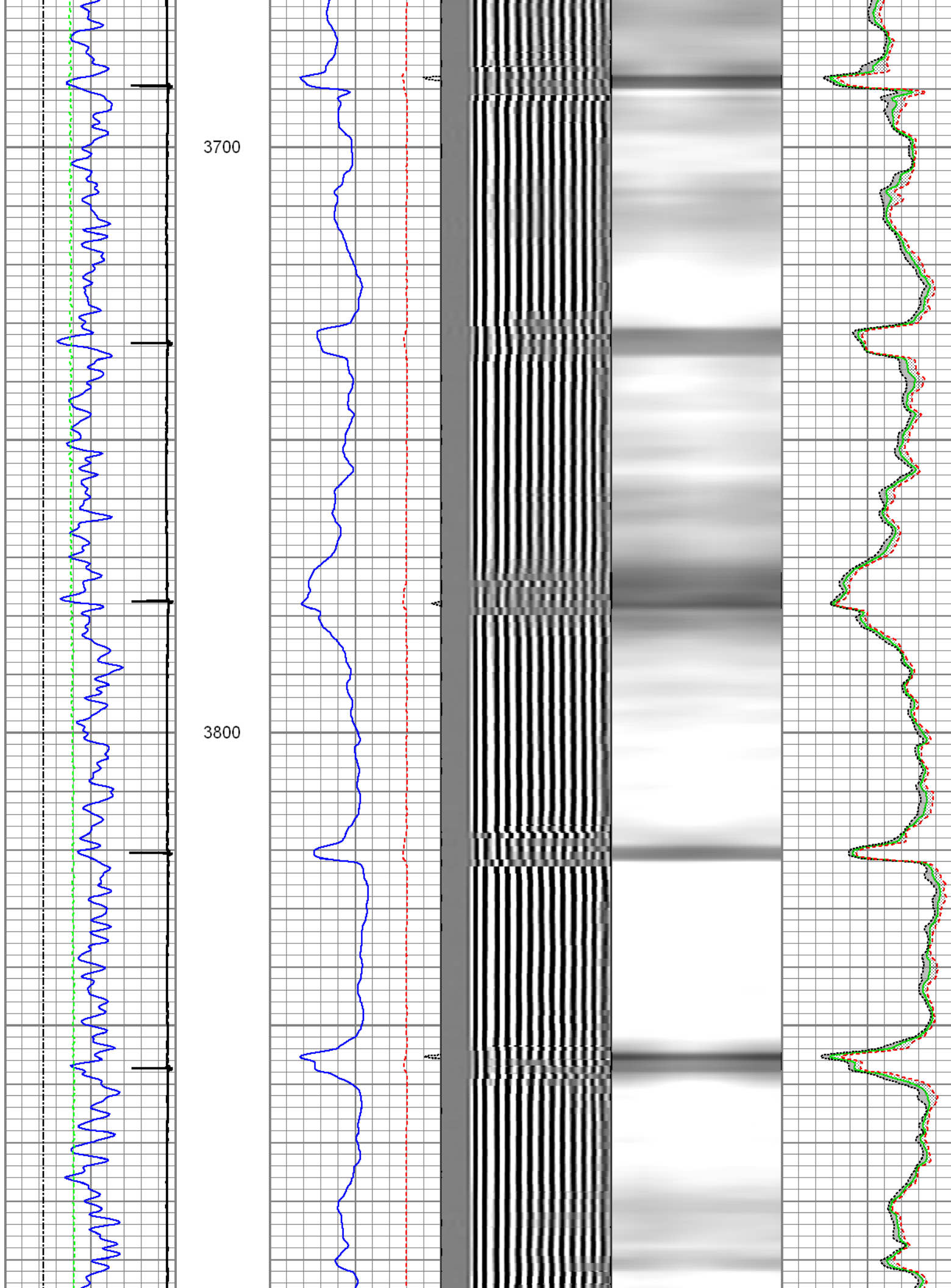


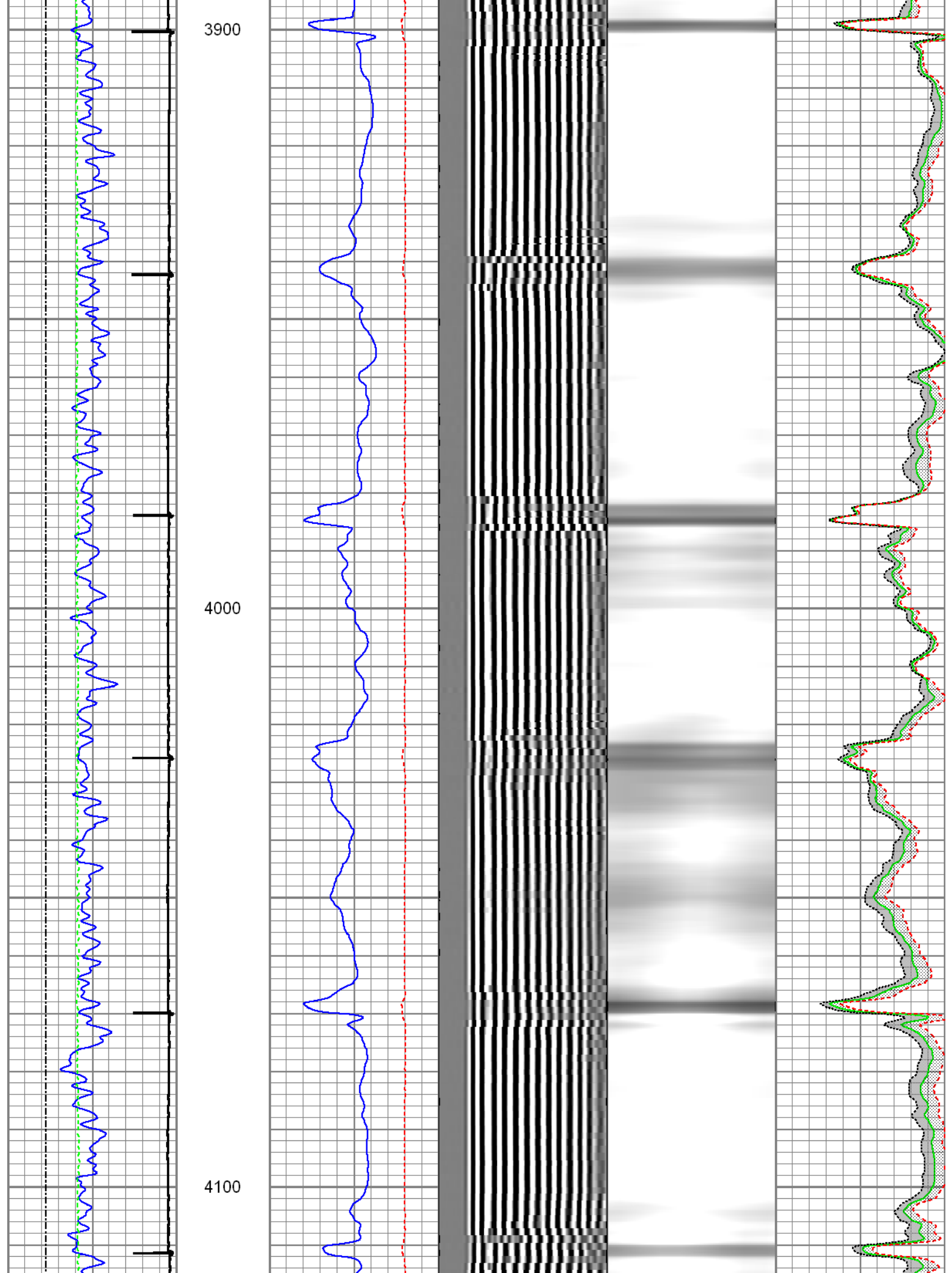


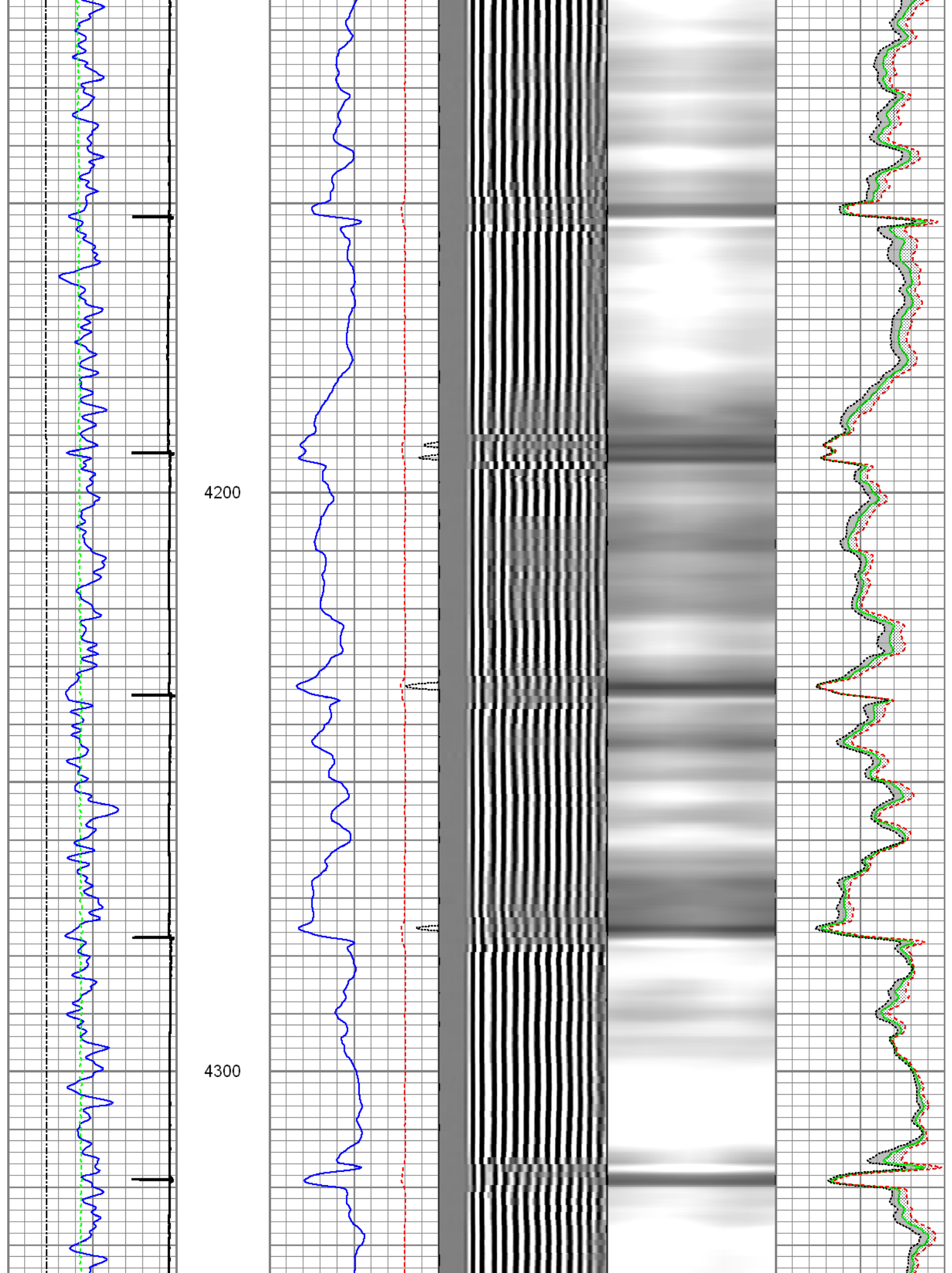


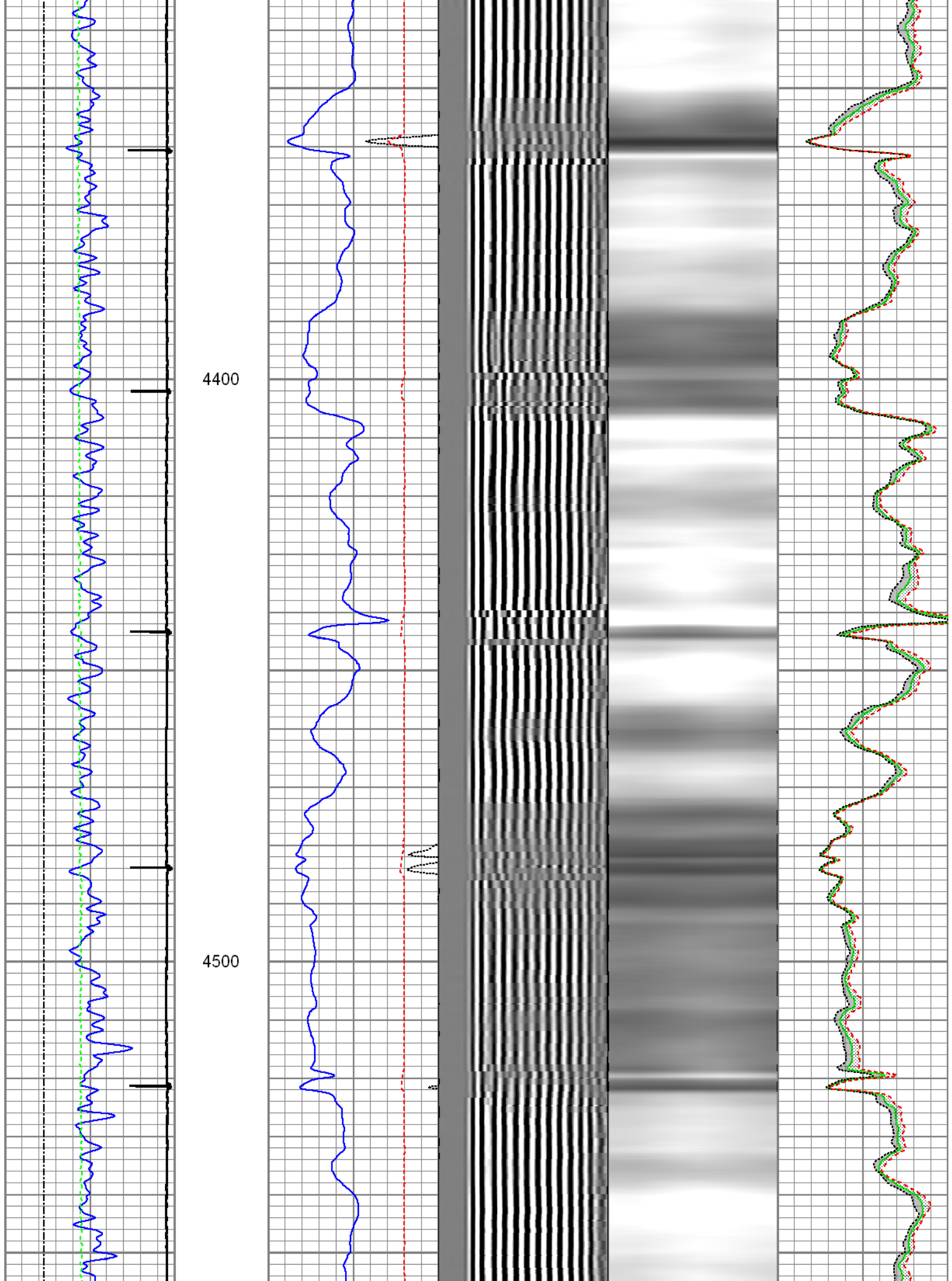
3700

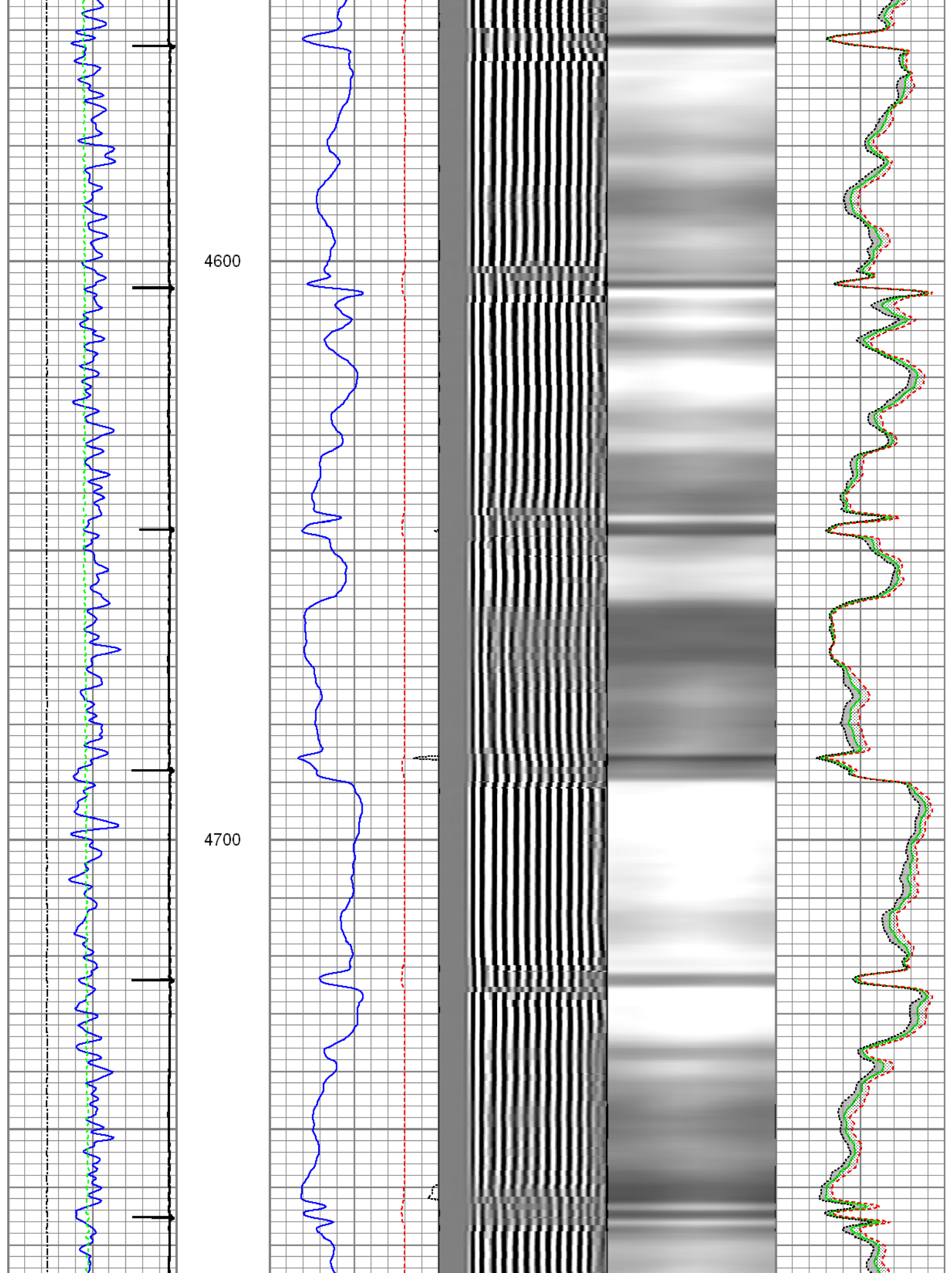
3800

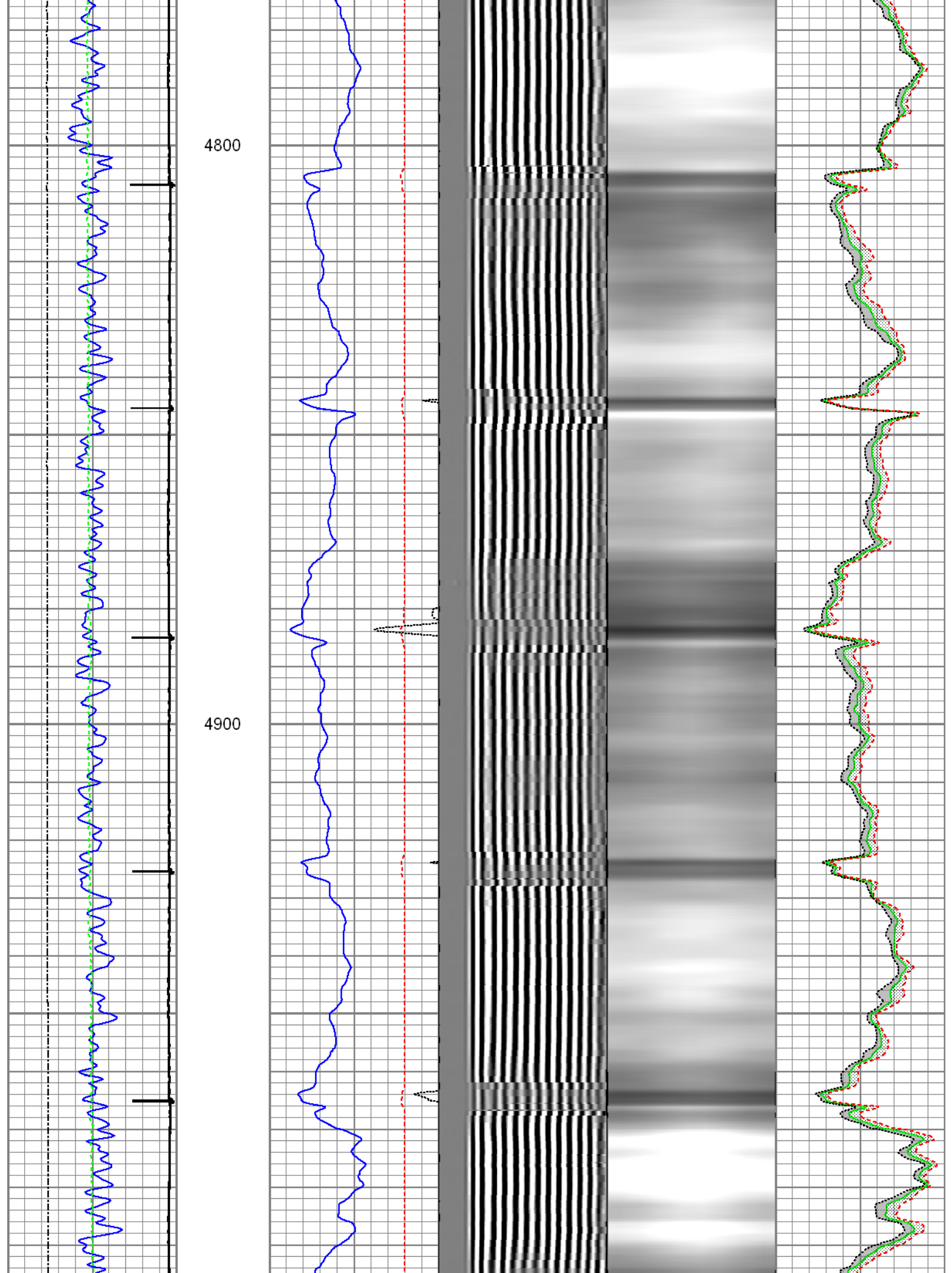


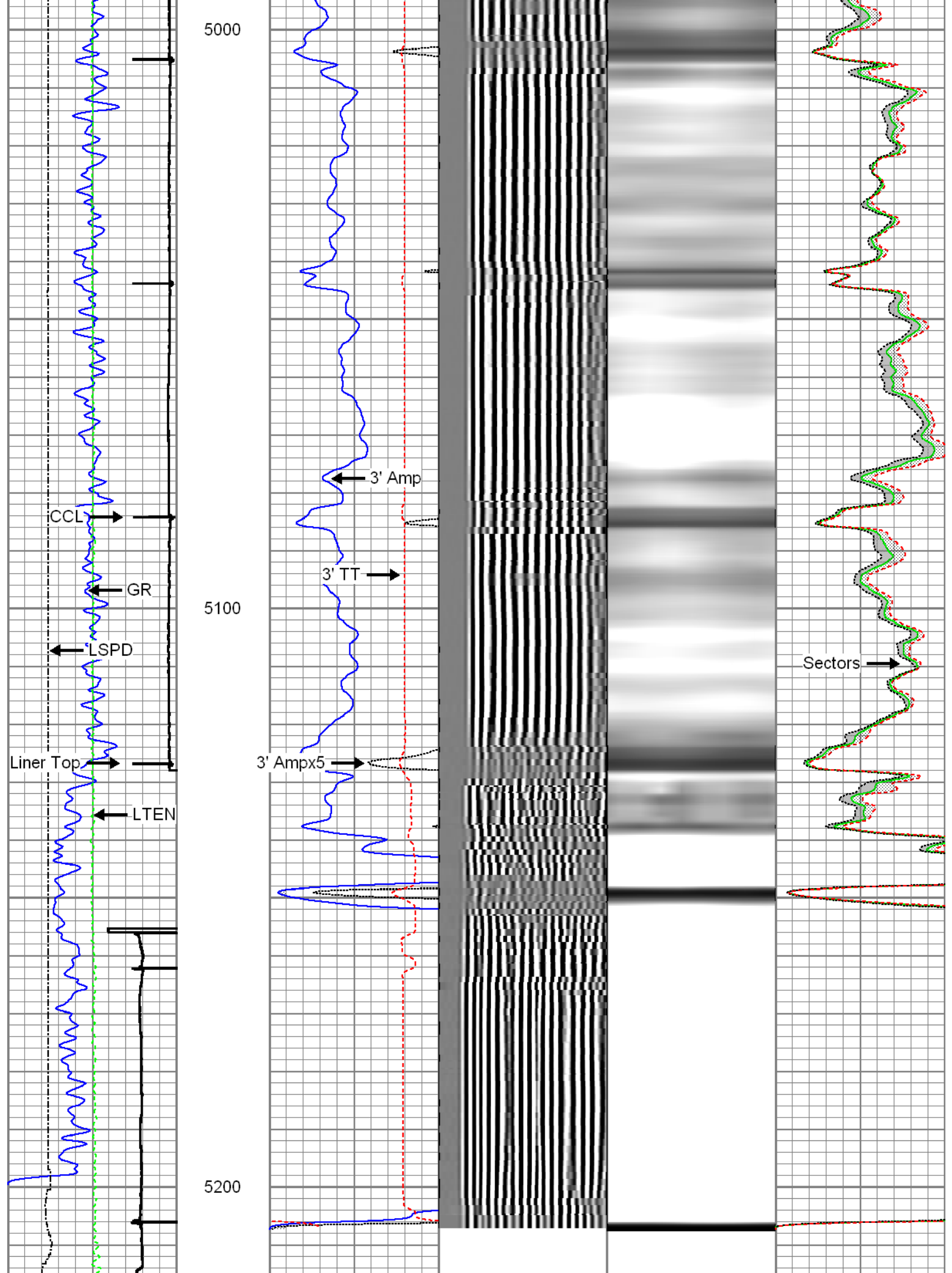


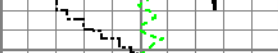
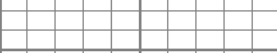






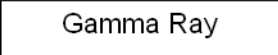


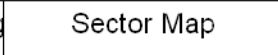



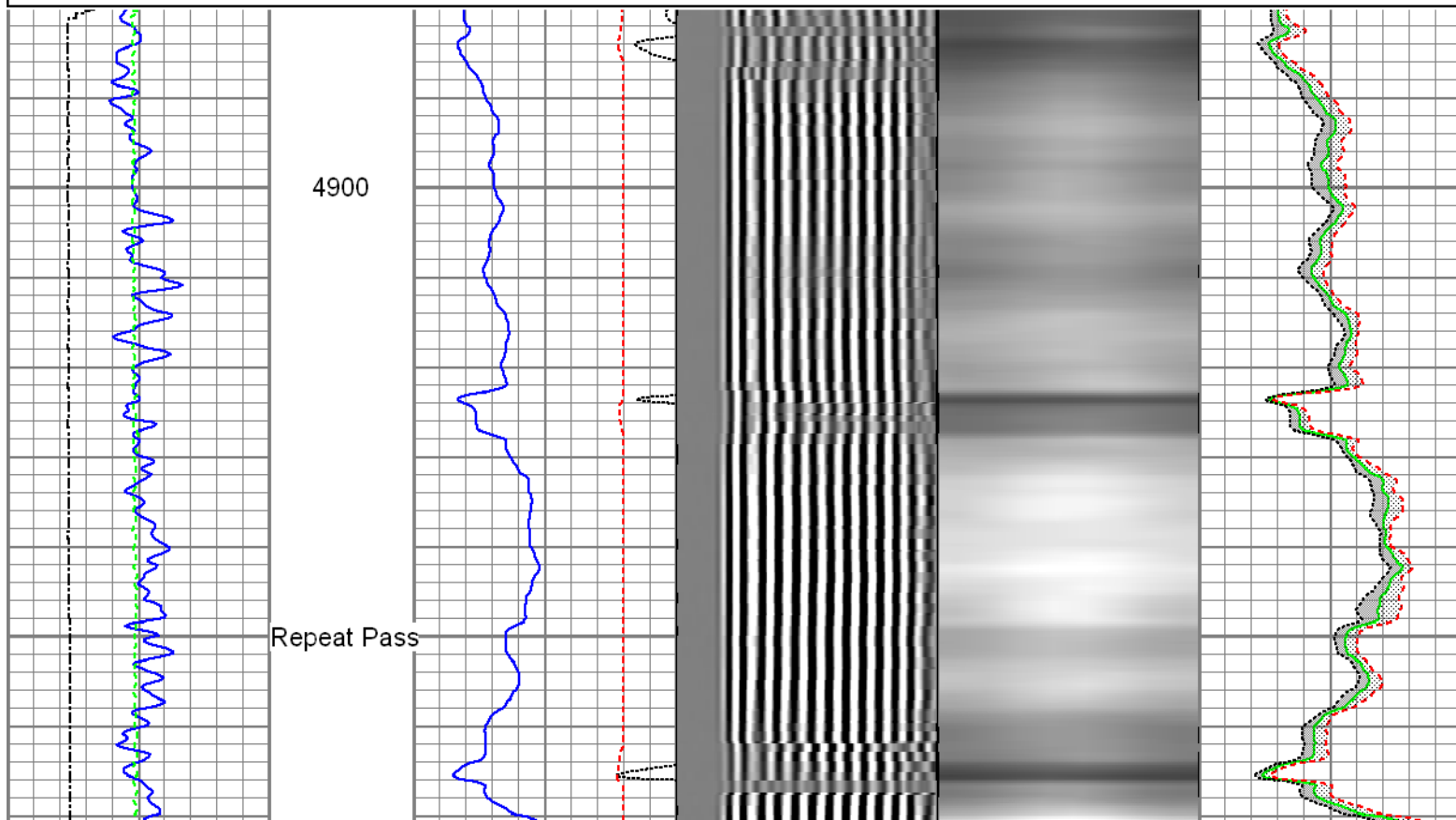


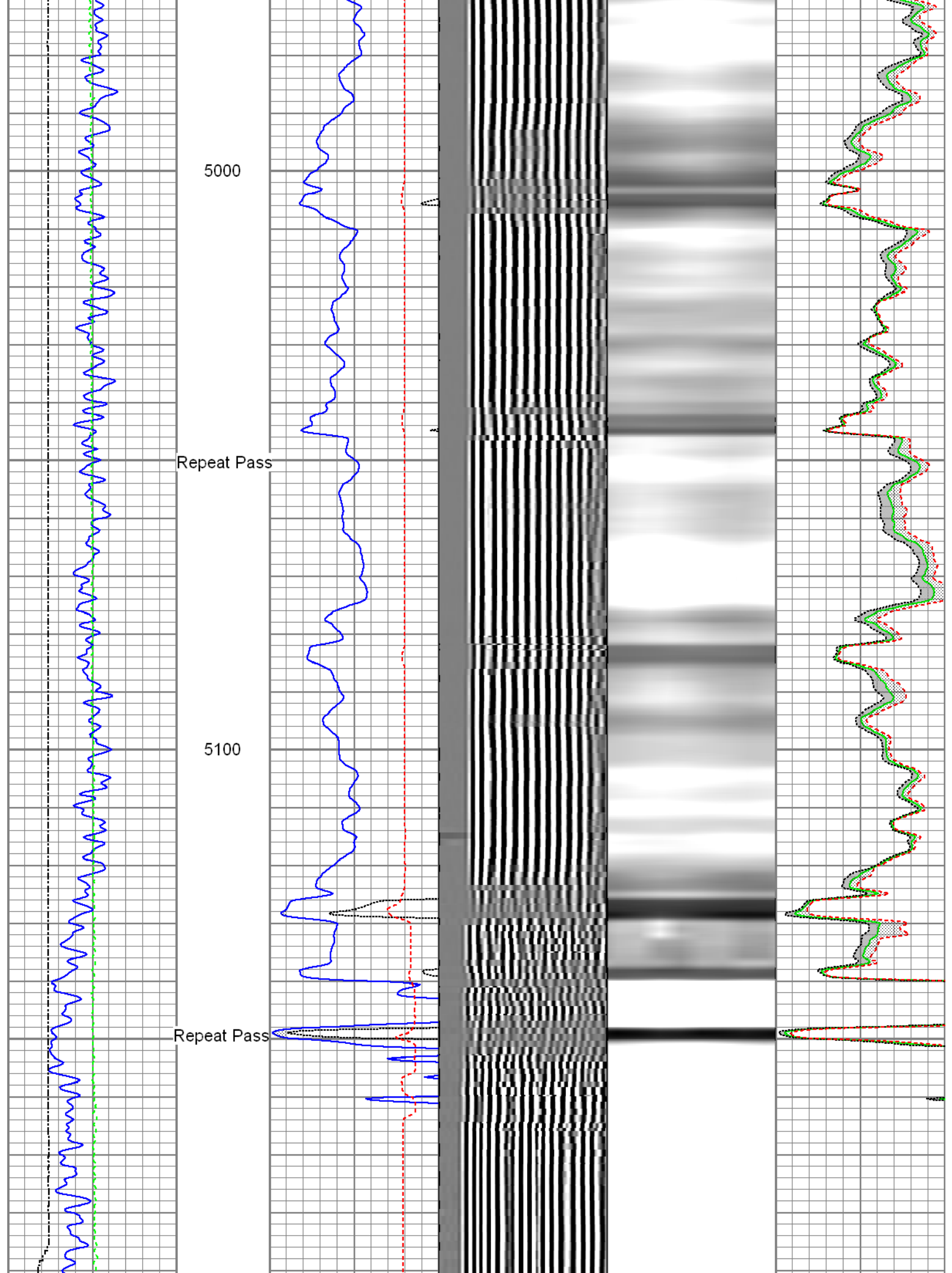


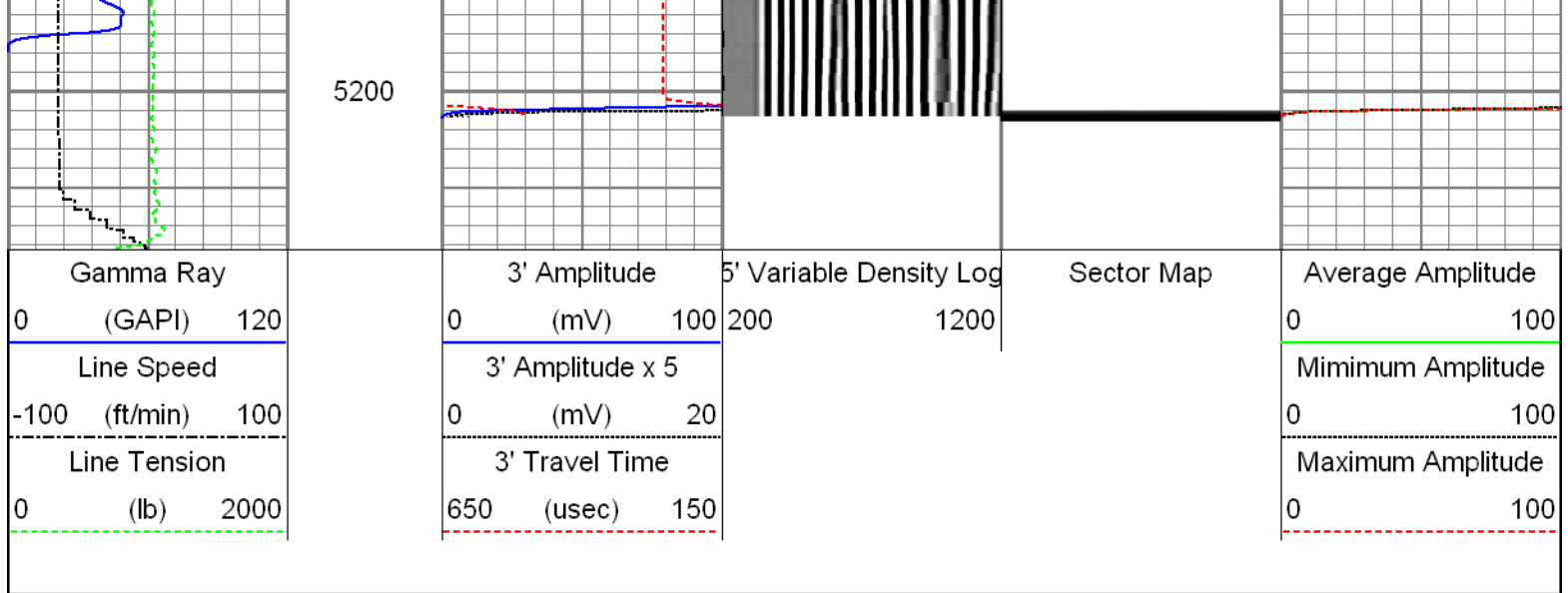


					
Gamma Ray 0 (GAPI) 120		3' Amplitude 0 (mV) 100	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 0 100
Casing Collar Locator		3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 100
Line Speed -100 (ft/min) 100		3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100
Line Tension 0 (lb) 2000					

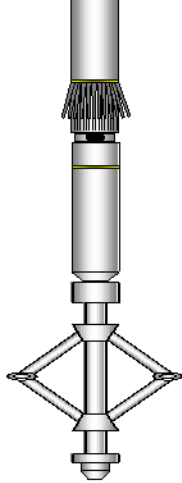
		Repeat Pass			
		Logged With 2500 PSI surface induced pressure			
Database File: 08-06-14_whiting_razor 25b-2549_mit_rbl.db					
Dataset Pathname: repeat2					
Presentation Format: rbt4_mit					
Dataset Creation: Wed Aug 06 12:02:03 2014 by Log SCH 111116					
Charted by: Depth in Feet scaled 1:240					
					
Gamma Ray 0 (GAPI) 120		3' Amplitude 0 (mV) 100	5' Variable Density Log 200 1200	Sector Map	Average Amplitude 0 100
Line Speed -100 (ft/min) 100		3' Amplitude x 5 0 (mV) 20			Minimum Amplitude 0 100
Line Tension 0 (lb) 2000		3' Travel Time 650 (usec) 150			Maximum Amplitude 0 100







Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	22.37		T_CH14375_1_GO Titan 1-7/16" Assembled Electric Cable Head with 1" Fishing Neck	1.03	1.44	4.00
			UW_AGS-UW_AGS_001 (215017) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW_XTU-UW_XTU_002 (211461) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			UW_PGR-UW_PGR_020 (050836) Production Gamma Ray	1.93	1.69	9.50
			UW_PRC-DSSRAC (080) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00
WVF3FT	14.99		UW_RBT-UW_RBT_004 (1066) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.47	3.13	140.00
WVFS1	14.99					
WVFS2	14.99					
WVFS3	14.99					
WVFS4	14.99					
WVFS5	14.99					
WVFS6	14.99					
WVFS7	14.99					
WVFS8	14.99					
CBLTEMP	14.99					
CBLROT	14.99					
WVF5FT	13.99					
			UW_PRC-DSSRAC (082) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00

MIT	4.97		UW_MIT-UW_MIT40_042 (10012912) 40 Multifinger Imaging Tool	4.54	2.75	61.10	
TSTAMP	0.00		UW_PRC #3 -DSSRAC (084) 2-3/4" DSS 5 Arm Roller Centralizer	2.55	2.75	32.00	
			UW_BUL-UW_BUL_006 (218707) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20	
Dataset: 08-06-14_whiting_razor 25b-2549_mit_rbl.db: field/well/run1/main Total Length: 26.62 ft Total Weight: 319.30 lb O.D. 3.13 in							

Calibration Report			
Database File:	08-06-14_whiting_razor 25b-2549_mit_rbl.db		
Dataset Pathname:	main		
Dataset Creation:	Wed Aug 06 12:14:39 2014 by Log SCH 111116		
Multi-finger Imaging Tool Calibration Report			
Serial Number:	10012912		
Number of Fingers:	40		
Tool Model:	UW_MIT40_042		
Inclinometer Calibration Report			
Performed:	Mon Jul 15 09:39:36 2013		
Calibration Angle:	45		
	Inc X	Inc Y	
Vertical:	1968	1974	
Finger 1 up:	1740	1744	
Finger 31 up:	2215	1741	
Finger 21 up:	2205	2224	
Finger 11 up:	1731	2217	
Sensitivity ratio:	0.992868		
X-axis angle:	134.307		
Deviation const.:	335.589		

Finger Calibration Report						
Performed: Wed Aug 06 10:29:13 2014						
Ring size:	4	5	6	7		
(in)	Sens	Sens	Sens			
Finger 01:	1052 360.0	1412 391.0	1803 406.0	2209		
Finger 02:	1177 370.0	1547 392.0	1939 401.0	2340		
Finger 03:	1068 372.0	1440 410.0	1850 426.0	2276		
Finger 04:	1085 356.0	1441 395.0	1836 419.0	2255		
Finger 05:	1083 375.0	1458 403.0	1861 423.0	2284		
Finger 06:	1082 366.0	1448 400.0	1848 422.0	2270		
Finger 07:	1076 369.0	1445 402.0	1847 426.0	2273		
Finger 08:	1087 360.0	1447 394.0	1841 424.0	2265		
Finger 09:	1090 366.0	1456 393.0	1849 420.0	2269		
Finger 10:	1083 369.0	1452 389.0	1841 420.0	2261		
Finger 11:	1094 368.0	1462 390.0	1852 417.0	2269		
Finger 12:	1092 361.0	1453 389.0	1842 420.0	2262		
Finger 13:	1104 363.0	1467 384.0	1851 412.0	2263		
Finger 14:	1078 368.0	1446 394.0	1840 423.0	2263		

Finger 14:	1075	355.0	1415	401.0	1815	425.0	2255
Finger 15:	1046	373.0	1419	403.0	1822	435.0	2257
Finger 16:	1059	376.0	1435	398.0	1833	432.0	2265
Finger 17:	1030	367.0	1397	399.0	1796	435.0	2231
Finger 18:	1114	366.0	1480	384.0	1864	409.0	2273
Finger 19:	1074	365.0	1439	385.0	1824	418.0	2242
Finger 20:	1045	370.0	1415	395.0	1810	430.0	2240
Finger 21:	1064	382.0	1446	393.0	1839	412.0	2251
Finger 22:	1026	380.0	1406	395.0	1801	426.0	2227
Finger 23:	1003	376.0	1379	405.0	1784	437.0	2221
Finger 24:	1058	371.0	1429	386.0	1815	399.0	2214
Finger 25:	1016	377.0	1393	402.0	1795	430.0	2225
Finger 26:	1144	366.0	1510	375.0	1885	390.0	2275
Finger 27:	1086	375.0	1461	397.0	1858	412.0	2270
Finger 28:	1114	369.0	1483	382.0	1865	397.0	2262
Finger 29:	1066	378.0	1444	405.0	1849	420.0	2269
Finger 30:	1081	374.0	1455	395.0	1850	409.0	2259
Finger 31:	1106	371.0	1477	391.0	1868	404.0	2272
Finger 32:	1088	382.0	1470	405.0	1875	415.0	2290
Finger 33:	1145	369.0	1514	383.0	1897	383.0	2280
Finger 34:	1119	370.0	1489	389.0	1878	406.0	2284
Finger 35:	1056	379.0	1435	421.0	1856	432.0	2288
Finger 36:	1075	376.0	1451	403.0	1854	417.0	2271
Finger 37:	1113	370.0	1483	399.0	1882	408.0	2290
Finger 38:	1138	364.0	1502	389.0	1891	394.0	2285
Finger 39:	1132	362.0	1494	389.0	1883	397.0	2280
Finger 40:	1092	369.0	1461	403.0	1864	414.0	2278

Segmented Cement Bond Log Calibration Report

Serial Number:	1066
Tool Model:	UW_RBT_004
Calibration Casing Diameter:	7.000 in
Calibration Depth:	742.047 ft

Master Calibration, performed Wed Aug 06 11:05:38 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.005	0.773	0.800	62.165	79.921	0.410
5FT	-0.001	0.716	0.800	62.165	85.612	0.905
S1	0.006	0.728	0.000	100.000	138.524	-0.845
S2	0.004	0.748	0.000	100.000	134.324	-0.492
S3	0.004	0.771	0.000	100.000	130.544	-0.585
S4	0.004	0.789	0.000	100.000	127.326	-0.466
S5	0.005	0.789	0.000	100.000	127.544	-0.623
S6	0.004	0.787	0.000	100.000	127.725	-0.468
S7	0.005	0.780	0.000	100.000	128.990	-0.624
S8	0.004	0.750	0.000	100.000	134.071	-0.583

Gamma Ray Calibration Report

Serial Number:	050836
Tool Model:	UW_PGR_020
Performed:	Sun Jun 13 13:33:21 1993
Calibrator Value:	1.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	1.0 cps
Sensitivity:	1.0000 GAPI/cps



Company	Whiting Oil & Gas Corporation
Well	Razor 25B -2549
Field	Wildcat
County	Weld
State	Colorado